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APPLICATION NO. **FILING DATE** FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 02/26/2004 10/788,898 Cornelius G. Hunter 021973-000100US 4547 20350 7590 04/25/2006 **EXAMINER** TOWNSEND AND TOWNSEND AND CREW, LLP NEGIN, RUSSELL SCOTT TWO EMBARCADERO CENTER ART UNIT PAPER NUMBER **EIGHTH FLOOR** SAN FRANCISCO, CA 94111-3834 1631

DATE MAILED: 04/25/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Applic	ation No.	Applicant(s)	
Office Action Summary		3,898	HUNTER, CORNELIUS G.	
		ner	Art Unit	
	Russel	I S. Negin	1631	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).				
Status				
 Responsive to communication(s) filed on This action is FINAL. 2b) ☑ This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. 				
Disposition of Claims				
 4) Claim(s) 1-53 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-53 are subject to restriction and/or election requirement. 				
Application Papers				
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Revie 3) Information Disclosure Statement(s) (PTO-144 Paper No(s)/Mail Date		4) Interview Summary Paper No(s)/Mail Di 5) Notice of Informal F 6) Other:	ate	D-152)

DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-34, 40-47, and 50-51, drawn to a computer method, program product, or system for the analysis of amino acids, classified in class 702, subclass 19. If this Invention is chosen, then the below mentioned species elections are required.
- II. Claims 35-39, 48, and 52, drawn to a computer method, program product, or system for predicting the fold on a protein, classified in class 7023, subclass 19. If this Invention is chosen, then the below mentioned species election is required.
- III. Claims 49 and 53, drawn to a computer program product or system for identifying coding regions of nucleotide sequences, classified in class 702, subclass 19.

The inventions are distinct, each from the other because of the following reasons:

Inventions II and I are directed to related processes and products. The related inventions are distinct if the inventions as claimed do not overlap in scope, i.e., are mutually exclusive; the inventions as claimed are not obvious variants; and the inventions as claimed are either not capable of use together or can have a materially different design, mode of operation, function, or effect. See MPEP § 806.05(j).

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While Invention I is devoted to looking at analysis and identification of amino acid sequences, Invention II has additional method steps devoted to prediction of a potential fold within the protein. Searching both of these Inventions requires undue search burden because the method steps of each Invention differ.

Inventions III and [I, II] are directed to related processes and products. The related inventions are distinct if the inventions as claimed do not overlap in scope, i.e., are mutually exclusive; the inventions as claimed are not obvious variants; and the inventions as claimed are either not capable of use together or can have a materially different design, mode of operation, function, or effect. See MPEP § 806.05(j).

While Inventions I and II are devoted to proteins, Invention III pertains to the use of oligonucleotides and finding coding regions. The two concepts are separate and distinct. The divergent method steps for the two groups of Inventions require independent searches which signifies undue search burden.

Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Species Elections for Invention I:

There are three categories for Species Elections in Group I. Applicant must elect one specie from each of the categories.

Category #1: proteins

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Specie A: The sequence of amino acids is from a known protein (claim 16)

Specie B: The sequence of amino acids is from a putative protein (claim 17)

Generic to #1: Claims 1-15, 18-34, 40-47, and 50-51

Justification: Known and putative proteins are distinct and mutually exclusive. They require different searches to arrive at a conclusion.

Category #2: secondary structures

Applicant must choose a moiety from claim 20. Each moiety is independent and distinct requiring its own search. Generic claims are 1-34, 40-47, and 50-51.

Category #3: Tables 14 and 15

Specie C: The sequence of signals present in Table 14 (claims 40, 41, and 44)

Specie D: The sequence of signals present in Table 15 (claims 42, 43, and 45)

Generic to #3: 1--34, 46-47, and 50-51

Justification: Each Table is an independent listing of signals each requiring its own independent search. Searching both tables would require an undue search burden.

Species Elections for Invention II:

This application contains claims directed to the following patentably distinct species:

Specie X: The sequence of signals present in Table 14 (claim 38)

Specie Y: The sequence of signals present in Table 15 (claim 39)

The species are independent or distinct because Each Table is an independent listing of signals each requiring its own independent search. Searching both tables would require an undue search burden.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, 35-37, 48 and 52 generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species.

MPEP § 809.02(a).

Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the

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requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Papers related to this application may be submitted to Technical Center 1600 by facsimile transmission. Papers should be faxed to Technical Center 1600 via the central PTO Fax Center. The faxing of such pages must conform with the notices published in the Official Gazette, 1096 OG 30 (November 15, 1988), 1156 OG 61 (November 16, 1993), and 1157 OG 94 (December 28, 1993)(See 37 CFR § 1.6(d)). The Central PTO Fax Center Number is (571) 273-8300.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Russell Negin, Ph.D., whose telephone number is (571) 272-1083. The examiner can normally be reached on Monday-Friday from 7am to 4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's Supervisor, Ardin Marschel, Ph.D., Supervisory Patent Examiner, can be reached at (571) 272-0718.

Any inquiry of a general nature or relating to the status of this application should be directed to Legal Instrument Examiner, Tina Plunkett, whose telephone number is (571) 272-0549.

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Information regarding the status of the application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information on the PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

-RSN 4/24/2006

Nem 4/1/06

JOHN S. BRUSCA, PH.D
PRIMARY EXAMINER